

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspt189dxw

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	DEC 01	ChemPort single article sales feature unavailable
NEWS	3	JAN 06	The retention policy for unread STNmail messages will change in 2009 for STN-Columbus and STN-Tokyo
NEWS	4	JAN 07	WPIDS, WPINDEX, and WPIX enhanced Japanese Patent Classification Data
NEWS	5	FEB 02	Simultaneous left and right truncation (SLART) added for CERAB, COMPUAB, ELCOM, and SOLIDSTATE
NEWS	6	FEB 02	GENBANK enhanced with SET PLURALS and SET SPELLING
NEWS	7	FEB 06	Patent sequence location (PSL) data added to USGENE
NEWS	8	FEB 10	COMPENDEX reloaded and enhanced
NEWS	9	FEB 11	WTEXTILES reloaded and enhanced
NEWS	10	FEB 19	New patent-examiner citations in 300,000 CA/CAPLUS patent records provide insights into related prior art
NEWS	11	FEB 19	Increase the precision of your patent queries -- use terms from the IPC Thesaurus, Version 2009.01
NEWS	12	FEB 23	Several formats for image display and print options discontinued in USPATFULL and USPAT2
NEWS	13	FEB 23	MEDLINE now offers more precise author group fields and 2009 MeSH terms
NEWS	14	FEB 23	TOXCENTER updates mirror those of MEDLINE - more precise author group fields and 2009 MeSH terms
NEWS	15	FEB 23	Three million new patent records blast AEROSPACE into STN patent clusters
NEWS	16	FEB 25	USGENE enhanced with patent family and legal status display data from INPADOCDB
NEWS	17	MAR 06	INPADOCDB and INPAFAMDB enhanced with new display formats
NEWS	18	MAR 11	EPFULL backfile enhanced with additional full-text applications and grants
NEWS	19	MAR 11	ESBIOBASE reloaded and enhanced
NEWS	20	MAR 20	CAS databases on STN enhanced with new super role for nanomaterial substances
NEWS	21	MAR 23	CA/CAPLUS enhanced with more than 250,000 patent equivalents from China
NEWS	22	MAR 30	IMSPATENTS reloaded and enhanced
NEWS	23	APR 03	CAS coverage of exemplified prophetic substances enhanced
NEWS	24	APR 07	STN is raising the limits on saved answers
NEWS	25	APR 24	CA/CAPLUS now has more comprehensive patent assignee information
NEWS	26	APR 26	USPATFULL and USPAT2 enhanced with patent assignment/reassignment information

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,

AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS LOGIN Welcome Banner and News Items

Enter NEWS followed by the item number or name to see news on that specific topic.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 04:57:44 ON 27 APR 2009

=> index bioscience

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION

FULL ESTIMATED COST

0.22	0.22
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INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 04:57:52 ON 27 APR 2009

68 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view search error messages that display as 0\* with SET DETAIL OFF.

=> s blue green algae and cultur? and edible and free(p)inorganic(p)addit?

- 0\* FILE ADISNEWS
- 0\* FILE ANTE
- 0\* FILE AQUALINE
- 0\* FILE BIOENG
- 0\* FILE BIOTECHABS
- 0\* FILE BIOTECHDS
- 0\* FILE BIOTECHNO
- 0\* FILE CEABA-VTB
- 0\* FILE CIN

19 FILES SEARCHED...

- 0\* FILE FOMAD
- 0\* FILE FOREGE
- 0\* FILE FROSTI

33 FILES SEARCHED...

- 0\* FILE FSTA
- 0\* FILE KOSMET
- 0\* FILE NTIS
- 0\* FILE NUTRACEUT
- 0\* FILE PASCAL
- 0\* FILE PHARMAML

52 FILES SEARCHED...

- 5 FILE USPATFULL
- 1 FILE USPAT2
- 0\* FILE WATER

66 FILES SEARCHED...

2 FILES HAVE ONE OR MORE ANSWERS, 68 FILES SEARCHED IN STNINDEX

L1 QUE BLUE GREEN ALGAE AND CULTUR? AND EDIBLE AND FREE(P) INORGANIC(P) ADDIT  
?

=> file uspatfull uspat2

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
2.04	2.26

FULL ESTIMATED COST

FILE 'USPATFULL' ENTERED AT 04:59:40 ON 27 APR 2009

CA INDEXING COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 04:59:40 ON 27 APR 2009

CA INDEXING COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)

=> s l1

L2 6 L1

=> dup rem l2

PROCESSING COMPLETED FOR L2

L3 6 DUP REM L2 (0 DUPLICATES REMOVED)

=> d l3 1-6

L3 ANSWER 1 OF 6 USPATFULL on STN

AN 2007:136231 USPATFULL

TI Process for the production of fine chemicals

IN Puzio, Piotr, Berlin, GERMANY, FEDERAL REPUBLIC OF  
Wendel, Birgit, Berlin, GERMANY, FEDERAL REPUBLIC OF  
Herold, Michael Manfred, Berlin, GERMANY, FEDERAL REPUBLIC OF  
Looser, Ralf, Berlin, GERMANY, FEDERAL REPUBLIC OF  
Blau, Astrid, Stahnsdorf, GERMANY, FEDERAL REPUBLIC OF  
Plesch, Gunnar, Potsdam, GERMANY, FEDERAL REPUBLIC OF  
Kamlage, Beate, Berlin, GERMANY, FEDERAL REPUBLIC OF  
Schauwecker, Florian, Berlin, GERMANY, FEDERAL REPUBLIC OF  
PA Metanomics GmbH, Berlin, GERMANY, FEDERAL REPUBLIC OF (non-U.S.  
corporation)

PI US 20070118916 A1 20070524

AI US 2006-516230 A1 20060906 (11)

PRAI EP 2006-110426 20060224

EP 2006-110579 20060228

EP 2006-110425 20060224

EP 2006-110423 20060224

EP 2006-110418 20060224

EP 2006-110383 20060224

EP 2006-110378 20060224

EP 2006-110367 20060224

EP 2006-110327 20060223

EP 2006-110325 20060223

EP 2006-110959 20060224

EP 2006-110289 20060222

EP 2006-110005 20060216

EP 2006-110215 20060221

EP 2006-110211 20060214

EP 2006-110968 20060217

EP 2006-101589 20060207

EP 2005-113027 20051222

EP 2005-112431 20051215

EP 2005-112039 20051212

EP 2005-111910 20051201

EP 2005-111170 20051117

EP 2005-110441 20051108  
 EP 2005-110433 20051107  
 EP 2005-109592 20051014  
 DT Utility  
 FS APPLICATION  
 LN.CNT 80479  
 INCL INCLM: 800/278.000  
 INCLS: 435/419.000; 435/468.000; 435/193.000; 536/023.200  
 NCL NCLM: 800/278.000  
 NCLS: 435/193.000; 435/419.000; 435/468.000; 536/023.200  
 IC IPCI A01H0001-00 [I,A]; C07H0021-04 [I,A]; C07H0021-00 [I,C\*];  
 C12N0009-10 [I,A]; C12N0015-82 [I,A]; C12N0005-04 [I,A]  
 IPCR A01H0001-00 [I,C]; A01H0001-00 [I,A]; C07H0021-00 [I,C];  
 C07H0021-04 [I,A]; C12N0005-04 [I,C]; C12N0005-04 [I,A];  
 C12N0009-10 [I,C]; C12N0009-10 [I,A]; C12N0015-82 [I,C];  
 C12N0015-82 [I,A]  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
 L3 ANSWER 2 OF 6 USPATFULL on STN  
 AN 2005:43751 USPATFULL  
 TI Method for culturing organic blue-green  
 algae  
 IN Chiueh, Chuang Chun, Taipei, TAIWAN, PROVINCE OF CHINA  
 PA Far East Microalgae Ind. Co., Ltd., Taipei City, TAIWAN, PROVINCE OF  
 CHINA (non-U.S. corporation)  
 PI US 20050037480 A1 20050217  
 AI US 2004-800623 A1 20040316 (10)  
 PRAI TW 2003-92122412 20030814  
 DT Utility  
 FS APPLICATION  
 LN.CNT 290  
 INCL INCLM: 435/252.100  
 NCL NCLM: 435/252.100  
 IC [7]  
 ICM C12N001-20  
 IPCI C12N0001-20 [ICM,7]  
 IPCR C12N0001-12 [I,C\*]; C12N0001-12 [I,A]  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
 L3 ANSWER 3 OF 6 USPATFULL on STN  
 AN 2003:93135 USPATFULL  
 TI Novel isozyme of autoclavable superoxide dismutase (SOD), a process for  
 the identification and extraction of the SOD and use of the said SOD in  
 cosmetic, food, and pharmaceutical compositions  
 IN Kumar, Sanjay, Himachal Pradesh, INDIA  
 Sahoo, Rashmita, Himachal Pradesh, INDIA  
 Ahuja, Paramvir Singh, Himachal Pradesh, INDIA  
 PA Council of Scientific & Industrial Research (non-U.S. corporation)  
 PI US 20030064494 A1 20030403  
 US 7037697 B2 20060502  
 AI US 2002-274053 A1 20021021 (10)  
 RLI Division of Ser. No. US 2000-617118, filed on 14 Jul 2000, GRANTED, Pat.  
 No. US 6485950  
 DT Utility  
 FS APPLICATION  
 LN.CNT 1977  
 INCL INCLM: 435/189.000  
 NCL NCLM: 435/189.000  
 NCLS: 424/094.400; 435/183.000  
 IC [7]  
 ICM C12N009-02  
 IPCI C12N0009-02 [ICM,7]

IPCI-2 C12N0009-02 [I,A]; C12N0009-00 [I,A]; A61K0033-44 [I,A]  
IPCR C12N0009-02 [I,A]; A23G0004-00 [I,C\*]; A23G0004-00 [I,A];  
A23G0004-06 [I,C\*]; A23G0004-12 [I,A]; A61K0008-30 [I,C\*];  
A61K0008-66 [I,A]; A61K0033-44 [I,C]; A61K0033-44 [I,A];  
A61K0038-00 [N,C\*]; A61K0038-00 [N,A]; A61Q0019-00 [I,C\*];  
A61Q0019-00 [I,A]; C12N0009-00 [I,C]; C12N0009-00 [I,A];  
C12N0009-02 [I,C]

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 4 OF 6 USPATFULL on STN  
AN 2002:310795 USPATFULL  
TI Isozyme of autoclavable superoxide dismutase (SOD), a process for the  
identification and extraction of the SOD in cosmetic, food and  
pharmaceutical compositions  
IN Kumar, Sanjay, Himachal Pradesh, INDIA  
Sahoo, Rashmita, Himachal Pradesh, INDIA  
Ahuja, Paramvir Singh, Himachal Pradesh, INDIA  
PA Council of Scientific and Industrial Research, New Delhi, INDIA  
(non-U.S. corporation)  
PI US 6485950 B1 20021126  
AI US 2000-617118 20000714 (9)  
DT Utility  
FS GRANTED  
LN.CNT 1774  
INCL INCLM: 435/189.000  
INCLS: 435/183.000; 424/094.400  
NCL NCLM: 435/189.000  
NCLS: 424/094.400; 435/183.000; 977/915.000; 977/926.000  
IC [7]  
ICM C12N0009-02  
ICS C12N0009-00; A61K038-44  
IPCI C12N0009-02 [ICM,7]; C12N0009-00 [ICS,7]; A61K0038-44 [ICS,7];  
A61K0038-43 [ICS,7,C\*]  
IPCR A23G0004-00 [I,C\*]; A23G0004-00 [I,A]; A23G0004-06 [I,C\*];  
A23G0004-12 [I,A]; A61K0008-30 [I,C\*]; A61K0008-66 [I,A];  
A61K0038-00 [N,C\*]; A61K0038-00 [N,A]; A61Q0019-00 [I,C\*];  
A61Q0019-00 [I,A]; C12N0009-02 [I,C\*]; C12N0009-02 [I,A]  
EXF 435/189; 435/183; 424/94.4

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 5 OF 6 USPATFULL on STN  
AN 1998:95244 USPATFULL  
TI Repellent compositions containing aromatic aldehydes  
IN Emerson, Ralph W., Davis, CA, United States  
Crandall, Jr., Bradford G., Davis, CA, United States  
PA Proguard, Inc., Suisun City, CA, United States (U.S. corporation)  
PI US 5792467 19980811  
AI US 1996-778061 19961224 (8)  
RLI Continuation-in-part of Ser. No. US 1996-640962, filed on 9 May 1996  
which is a continuation-in-part of Ser. No. US 1995-486943, filed on 7  
Jun 1995  
DT Utility  
FS Granted  
LN.CNT 2154  
INCL INCLM: 424/405.000  
INCLS: 424/403.000; 424/406.000; 514/919.000; 514/701.000  
NCL NCLM: 424/405.000  
NCLS: 424/403.000; 424/406.000; 514/701.000; 514/919.000  
IC [6]  
ICM A01N025-22  
IPCI A01N0025-22 [ICM,6]  
IPCR A01N0035-00 [I,C\*]; A01N0035-02 [I,A]; C12N0009-02 [I,C\*];

C12N0009-02 [I,A]; C12N0009-04 [I,C\*]; C12N0009-04 [I,A];  
 C12N0015-82 [I,C\*]; C12N0015-82 [I,A]  
 EXF 424/403; 424/405-407; 514/916; 514/919; 514/701  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 6 OF 6 USPAT2 on STN  
 AN 2003:93135 USPAT2  
 TI Isozyme of autoclavable superoxide dismutase (SOD), a process for the  
 identification and extraction of the SOD and use of the said SOD in  
 cosmetic, food, and pharmaceutical compositions  
 IN Kumar, Sanjay, Himachel Pradesh, INDIA  
 Sahoo, Rashmita, Himachal Pradesh, INDIA  
 Ahuja, Paramvir Singh, Himachal Pradesh, INDIA  
 PA Council of Scientific & Industrial Research, New Delhi, INDIA (non-U.S.  
 corporation)  
 PI US 7037697 B2 20060502  
 AI US 2002-274053 20021021 (10)  
 RLI Division of Ser. No. US 2000-617118, filed on 14 Jul 2000, Pat. No. US  
 6485950  
 DT Utility  
 FS GRANTED  
 LN.CNT 1671  
 INCL INCLM: 435/189.000  
 INCLS: 435/183.000; 424/094.400  
 NCL NCLM: 435/189.000  
 NCLS: 424/094.400; 435/183.000  
 IC IPCI C12N0009-02 [ICM,7]  
 IPCI-2 C12N0009-02 [I,A]; C12N0009-00 [I,A]; A61K0033-44 [I,A]  
 IPCR C12N0009-02 [I,A]; A23G0004-00 [I,C\*]; A23G0004-00 [I,A];  
 A23G0004-06 [I,C\*]; A23G0004-12 [I,A]; A61K0008-30 [I,C\*];  
 A61K0008-66 [I,A]; A61K0033-44 [I,C]; A61K0033-44 [I,A];  
 A61K0038-00 [N,C\*]; A61K0038-00 [N,A]; A61Q0019-00 [I,C\*];  
 A61Q0019-00 [I,A]; C12N0009-00 [I,C]; C12N0009-00 [I,A];  
 C12N0009-02 [I,C]  
 EXF 435/189; 435/183; 424/94.4  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d hist

(FILE 'HOME' ENTERED AT 04:57:44 ON 27 APR 2009)

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE,  
 AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS,  
 CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB,  
 DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 04:57:52 ON 27 APR 2009  
 SEA BLUE GREEN ALGAE AND CULTUR? AND EDIBLE AND FREE(P) INORGANI

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 0\* FILE ADISNEWS  
 0\* FILE ANTE  
 0\* FILE AQUALINE  
 0\* FILE BIOENG  
 0\* FILE BIOTECHABS  
 0\* FILE BIOTECHDS  
 0\* FILE BIOTECHNO  
 0\* FILE CEABA-VTB  
 0\* FILE CIN  
 0\* FILE FOMAD  
 0\* FILE FOREGE  
 0\* FILE FROSTI  
 0\* FILE FSTA  
 0\* FILE KOSMET

```
0* FILE NTIS
0* FILE NUTRACEUT
0* FILE PASCAL
0* FILE PHARMAML
5 FILE USPATFULL
1 FILE USPAT2
0* FILE WATER
L1 QUE BLUE GREEN ALGAE AND CULTUR? AND EDIBLE AND FREE(P) INORGAN
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FILE 'USPATFULL, USPAT2' ENTERED AT 04:59:40 ON 27 APR 2009
L2 6 S L1
L3 6 DUP REM L2 (0 DUPLICATES REMOVED)
```

=> logoff

ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	9.66	11.92

STN INTERNATIONAL LOGOFF AT 05:00:17 ON 27 APR 2009

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspt189dxw

PASSWORD:

LOGINID/PASSWORD REJECTED

The loginid and/or password sent to STN were invalid.  
You either typed them incorrectly, or line noise may  
have corrupted them.

Do you wish to retry the logon?

Enter choice (y/N):

Do you wish to use the same loginid and password?

Enter choice (y/N):ssspt189dxw

LOGINID:

PASSWORD:

LOGINID/PASSWORD REJECTED

The loginid and/or password sent to STN were invalid.  
You either typed them incorrectly, or line noise may  
have corrupted them.

Do you wish to retry the logon?

Enter choice (y/N):

Connecting via Winsock to STN

LOGINID:

ssspt189dxw

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspt189dxw

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	APR 02	CAS Registry Number Crossover Limits Increased to 500,000 in Key STN Databases
NEWS	3	APR 02	PATDPAFULL: Application and priority number formats enhanced
NEWS	4	APR 02	DWPI: New display format ALLSTR available
NEWS	5	APR 02	New Thesaurus Added to Derwent Databases for Smooth Sailing through U.S. Patent Codes
NEWS	6	APR 02	EMBASE Adds Unique Records from MEDLINE, Expanding Coverage back to 1948
NEWS	7	APR 07	CA/CAPLUS CLASS Display Streamlined with Removal of Pre-IPC 8 Data Fields
NEWS	8	APR 07	50,000 World Traditional Medicine (WTM) Patents Now Available in CAPLUS
NEWS	9	APR 07	MEDLINE Coverage Is Extended Back to 1947
NEWS	10	JUN 16	WPI First View (File WPIFV) will no longer be available after July 30, 2010
NEWS	11	JUN 18	DWPI: New coverage - French Granted Patents
NEWS	12	JUN 18	CAS and FIZ Karlsruhe announce plans for a new STN platform
NEWS	13	JUN 18	IPC codes have been added to the INSPEC backfile (1969-2009)
NEWS	14	JUN 21	Removal of Pre-IPC 8 data fields streamline displays in CA/CAPLUS, CASREACT, and MARPAT
NEWS	15	JUN 21	Access an additional 1.8 million records exclusively enhanced with 1.9 million CAS Registry Numbers -- EMBASE Classic on STN
NEWS	16	JUN 28	Introducing "CAS Chemistry Research Report": 40 Years of Biofuel Research Reveal China Now Atop U.S. in Patenting and Commercialization of Bioethanol
NEWS	17	JUN 29	Enhanced Batch Search Options in DGENE, USGENE, and PCTGEN
NEWS	18	JUL 19	Enhancement of citation information in INPADOC databases provides new, more efficient competitor analyses
NEWS	19	JUL 26	CAS coverage of global patent authorities has expanded to 61 with the addition of Costa Rica
NEWS	20	SEP 15	MEDLINE Cited References provide additional relevant records with no additional searching.

NEWS EXPRESS FEBRUARY 15 10 CURRENT WINDOWS VERSION IS V8.4.2,  
AND CURRENT DISCOVER FILE IS DATED 07 JULY 2010.

NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS LOGIN Welcome Banner and News Items

Enter NEWS followed by the item number or name to see news on that



specific topic.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 19:56:14 ON 25 SEP 2010

=> index bioscience

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.22	0.22

FULL ESTIMATED COST

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 19:56:39 ON 25 SEP 2010

62 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view search error messages that display as 0\* with SET DETAIL OFF.

=> s (cyanobact? or blue-green) and cultur? and (media or medium) and (food or edib?) and organic and protein and (Lactobacillus or Bacillus or yeast or Streptococcus or Rhodopseudomonas)

11 FILES SEARCHED...

23 FILES SEARCHED...

36 FILES SEARCHED...

1 FILE PROMT

54 FILES SEARCHED...

1170 FILE USPATFULL

316 FILE USPAT2

1 FILE WPIDS

1 FILE WPINDEX

5 FILES HAVE ONE OR MORE ANSWERS, 62 FILES SEARCHED IN STNINDEX

L1 QUE (CYANOBACT? OR BLUE-GREEN) AND CULTUR? AND (MEDIA OR MEDIUM) AND (FOOD OR EDIB?) AND ORGANIC AND PROTEIN AND (LACTOBACILLUS OR BACILLUS OR YEAST OR STREPTOCOCCUS OR RHODOPSEUDOMONAS)

=>

=> file promt uspatfull uspat2

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
26.22	26.44

FULL ESTIMATED COST

FILE 'PROMT' ENTERED AT 20:19:12 ON 25 SEP 2010

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FILE 'USPATFULL' ENTERED AT 20:19:12 ON 25 SEP 2010

CA INDEXING COPYRIGHT (C) 2010 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 20:19:12 ON 25 SEP 2010

CA INDEXING COPYRIGHT (C) 2010 AMERICAN CHEMICAL SOCIETY (ACS)

```

=> s l1
L2      1487 L1

=> dup rem l2
PROCESSING IS APPROXIMATELY 23% COMPLETE FOR L2
PROCESSING IS APPROXIMATELY 46% COMPLETE FOR L2
PROCESSING IS APPROXIMATELY 71% COMPLETE FOR L2
PROCESSING COMPLETED FOR L2
L3      1487 DUP REM L2 (0 DUPLICATES REMOVED)

=> s l3 and (rhamnosum or acidophilus or lactis or subtilis or palustris)
2 FILES SEARCHED...
L4      744 L3 AND (RHAMNOSUM OR ACIDOPHILUS OR LACTIS OR SUBTILIS OR PALUST
      RIS)

=> s l4 and edible(p)algae
L5      12 L4 AND EDIBLE(P) ALGAE

=> d l5 1-12

L5      ANSWER 1 OF 12  USPATFULL on STN
AN      2010:24300  USPATFULL
TI      EXTRACTS OF APHANIZOMENON FLOS AQUAE AND NUTRITIONAL, COSMETIC AND
PHARMACEUTICAL COMPOSITONS CONTAINING THE SAME
IN      Scoglio, Stefano, Urbino, ITALY
Canestrari, Franco, Urbino, ITALY
Benedetti, Serena, Urbino, ITALY
Zolla, Leilo, Urbino, ITALY
PA      NUTRATEC S.R.L., Urbino, ITALY (non-U.S. corporation)
PI      US 20100021493      A1  20100128
AI      US 2007-306478      A1  20070627 (12)
WO      2007-EP5623      20070627
      20091008  PCT 371 date
PRAI    US 2006-816594P      20060627 (60)
DT      Utility
FS      APPLICATION
LN.CNT  1677
INCL    INCLM: 424/195.170
      INCLS: 514/422.000; 514/564.000; 514/185.000
NCL     NCLM: 424/195.170
      NCLS: 514/185.000; 514/422.000; 514/564.000
IC      IPCI  A61K0036-02 [I,A]; A61K0031-4025 [I,A]; A61K0031-197 [I,A];
      A61K0031-185 [I,C*]; A61K0031-555 [I,A]; A61K0008-96 [I,A];
      A61P0039-06 [I,A]; A61P0039-00 [I,C*]; A61P0029-00 [I,A];
      A61P0035-00 [I,A]; A61P0017-00 [I,A]; A61P0027-02 [I,A];
      A61P0027-00 [I,C*]
      IPCR  A61K0036-02 [I,C]; A61K0036-02 [I,A]; A61K0008-96 [I,C];
      A61K0008-96 [I,A]; A61K0031-185 [I,C]; A61K0031-197 [I,A];
      A61K0031-4025 [I,C]; A61K0031-4025 [I,A]; A61K0031-555 [I,C];
      A61K0031-555 [I,A]; A61P0017-00 [I,C]; A61P0017-00 [I,A];
      A61P0027-00 [I,C]; A61P0027-02 [I,A]; A61P0029-00 [I,C];
      A61P0029-00 [I,A]; A61P0035-00 [I,C]; A61P0035-00 [I,A];
      A61P0039-00 [I,C]; A61P0039-06 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5      ANSWER 2 OF 12  USPATFULL on STN
AN      2009:288609  USPATFULL
TI      HOPM1 Mediated disease resistance to Pseudomonas syringae in Arabidopsis
IN      He, Sheng Yang, Okemos, MI, UNITED STATES
Nomura, Kinya, East Lansing, MI, UNITED STATES
PA      Michigan State University, Lansing, MI, UNITED STATES (U.S. corporation)

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PI US 20090258825 A1 20091015  
 AI US 2008-938 A1 20080221 (12)  
 PRAI US 2007-902576P 20070221 (60)  
 DT Utility  
 FS APPLICATION  
 LN.CNT 8900  
 INCL INCLM: 514/012.000  
 INCLS: 435/320.100; 530/350.000; 435 4  
 NCL NCLM: 514/012.000  
 NCLS: 435/004.000; 435/320.100; 530/350.000  
 IC IPCI A61K0038-16 [I,A]; C12N0015-63 [I,A]; C07K0014-005 [I,A];  
 C12Q0001-00 [I,A]  
 IPCR A61K0038-16 [I,C]; A61K0038-16 [I,A]; C07K0014-005 [I,C];  
 C07K0014-005 [I,A]; C12N0015-63 [I,C]; C12N0015-63 [I,A];  
 C12Q0001-00 [I,C]; C12Q0001-00 [I,A]

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 3 OF 12 USPATFULL on STN  
 AN 2009:34079 USPATFULL  
 TI Protection against herbivores  
 IN Howe, Gregg A., East Lansing, MI, UNITED STATES  
 Chen, Hui, East Lansing, MI, UNITED STATES  
 PI US 20090031457 A1 20090129  
 AI US 2005-666714 A1 20051031 (11)  
 WO 2005-US39363 20051031  
 20080904 PCT 371 date  
 PRAI US 2004-623462P 20041029 (60)  
 US 2005-700652P 20050719 (60)  
 DT Utility  
 FS APPLICATION  
 LN.CNT 6852  
 INCL INCLM: 800/302.000  
 INCLS: 536/023.200; 435/320.100; 800/298.000; 800/317.000; 800/319.000;  
 800/306.000; 800/317.400; 435/419.000; 435/468.000  
 NCL NCLM: 800/302.000  
 NCLS: 435/320.100; 435/419.000; 435/468.000; 536/023.200; 800/298.000;  
 800/306.000; 800/317.000; 800/317.400; 800/319.000  
 IC IPCI A01H0005-00 [I,A]; C07H0021-00 [I,A]; A01H0005-10 [I,A];  
 C12N0015-82 [I,A]; C12N0005-04 [I,A]; C12N0015-63 [I,A]  
 IPCR A01H0005-00 [I,C]; A01H0005-00 [I,A]; A01H0005-10 [I,C];  
 A01H0005-10 [I,A]; C07H0021-00 [I,C]; C07H0021-00 [I,A];  
 C12N0005-04 [I,C]; C12N0005-04 [I,A]; C12N0015-63 [I,C];  
 C12N0015-63 [I,A]; C12N0015-82 [I,C]; C12N0015-82 [I,A]

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 4 OF 12 USPATFULL on STN  
 AN 2009:34078 USPATFULL  
 TI AtMIN7 mediated disease resistance to Pseudomonas syringae in  
 arabidopsis  
 IN He, Sheng Yang, Okemos, MI, UNITED STATES  
 Nomura, Kinya, East Lansing, MI, UNITED STATES  
 PA Michigan State University, Lansing, MI, UNITED STATES (U.S. corporation)  
 PI US 20090031456 A1 20090129  
 AI US 2008-959 A1 20080221 (12)  
 PRAI US 2007-902576P 20070221 (60)  
 DT Utility  
 FS APPLICATION  
 LN.CNT 8708  
 INCL INCLM: 800/301.000  
 INCLS: 435/320.100; 800/317.000; 800/306.000; 800/320.000  
 NCL NCLM: 800/301.000  
 NCLS: 435/320.100; 800/306.000; 800/317.000; 800/320.000

IC IPCI C12N0015-82 [I,A]; A01H0005-00 [I,A]  
IPCR C12N0015-82 [I,C]; C12N0015-82 [I,A]; A01H0005-00 [I,C];  
A01H0005-00 [I,A]

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 5 OF 12 USPATFULL on STN

AN 2005:173251 USPATFULL

TI Novel carotenoid hydroxylases for use in engineering carotenoid  
metabolism in plants

IN DellaPenna, Dean, Williamston, MI, UNITED STATES

Tian, Li, Ardmore, OK, UNITED STATES

Kim, Joonyul, Inje, KOREA, REPUBLIC OF

PI US 20050150002 A1 20050707

AI US 2004-751235 A1 20040102 (10)

DT Utility

FS APPLICATION

LN.CNT 6448

INCL INCLM: 800/278.000

INCLS: 435/468.000; 435/419.000; 435/189.000; 800/282.000; 435/067.000

NCL NCLM: 800/278.000

NCLS: 435/067.000; 435/189.000; 435/419.000; 435/468.000; 800/282.000

IPC [7]

IPCI A01H0001-00 [ICM,7]; C12N0015-82 [ICS,7]; C12N0009-02 [ICS,7];

C12N0005-04 [ICS,7]; C12P0023-00 [ICS,7]

IPCR C12N0009-02 [I,C\*]; C12N0009-02 [I,A]; C12N0015-82 [I,C\*];

C12N0015-82 [I,A]; C12P0023-00 [I,C\*]; C12P0023-00 [I,A]

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 6 OF 12 USPATFULL on STN

AN 2005:45498 USPATFULL

TI ADS genes for reducing saturated fatty acid levels in seed oils

IN Heilmann, Ingo H., Bay Shore, NY, UNITED STATES

Shanklin, John, Shoreham, NY, UNITED STATES

PA Brookhaven Science Associates, LLC, Upton, NY (U.S. corporation)

PI US 20050039234 A1 20050217

US 7655833 B2 20100202

AI US 2004-857765 A1 20040528 (10)

PRAI US 2003-474045P 20030529 (60)

DT Utility

FS APPLICATION

LN.CNT 4482

INCL INCLM: 800/287.000

INCLS: 800/312.000; 536/023.200; 435/468.000; 435/415.000; 435/200.000

NCL NCLM: 800/281.000; 800/287.000

NCLS: 800/298.000; 435/200.000; 435/415.000; 435/468.000; 536/023.200;  
800/312.000

IPC [7]

IPCI C07H0021-04 [ICM,7]; C07H0021-00 [ICM,7,C\*]; C12N0009-24 [ICS,7];

A01H0001-00 [ICS,7]; C12N0015-87 [ICS,7]; A01H0005-00 [ICS,7];

C12N0005-04 [ICS,7]

IPCI-2 C12N0015-82 [I,A]; A01H0005-00 [I,A]

IPCR C12N0015-82 [I,C]; C12N0015-82 [I,A]; A01H0005-00 [I,C];

A01H0005-00 [I,A]; C07H0021-00 [I,C\*]; C07H0021-04 [I,A];

C12N0009-02 [I,C\*]; C12N0009-02 [I,A]

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 7 OF 12 USPATFULL on STN

AN 2005:43751 USPATFULL

TI Method for culturing organic blue-  
green algae

IN Chiueh, Chuang Chun, Taipei, TAIWAN, PROVINCE OF CHINA

PA Far East Microalgae Ind. Co., Ltd., Taipei City, TAIWAN, PROVINCE OF

CHINA (non-U.S. corporation)  
 PI US 20050037480 A1 20050217  
 AI US 2004-800623 A1 20040316 (10)  
 PRAI TW 2003-92122412 20030814  
 DT Utility  
 FS APPLICATION  
 LN.CNT 290  
 INCL INCLM: 435/252.100  
 NCL NCLM: 435/252.100  
 IPC [7]  
 IPCI C12N0001-20 [ICM,7]  
 IPCR C12N0001-12 [I,C\*]; C12N0001-12 [I,A]  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 8 OF 12 USPATFULL on STN  
 AN 2004:180328 USPATFULL  
 TI Plastid division and related genes and proteins, and methods of use  
 IN Osteryoung, Katherine W., Williamston, MI, UNITED STATES  
 Vitha, Stanislav, Haslett, MI, UNITED STATES  
 Koksharova, Olga A., Moscow, RUSSIAN FEDERATION  
 Gao, Hongbo, East Lansing, MI, UNITED STATES  
 PA The Board of Trustees Operating Michigan State University, East Lansing, MI (U.S. corporation)  
 PI US 20040139500 A1 20040715  
 US 7667099 B2 20100223  
 AI US 2003-600070 A1 20030620 (10)  
 PRAI US 2002-402242P 20020809 (60)  
 US 2002-390140P 20020620 (60)  
 DT Utility  
 FS APPLICATION  
 LN.CNT 11185  
 INCL INCLM: 800/282.000  
 INCLS: 536/023.200; 435/189.000; 435/069.100; 435/419.000; 435/468.000; 435/320.100  
 NCL NCLM: 800/298.000; 800/282.000  
 NCLS: 435/320.100; 435/418.000; 536/023.200; 435/069.100; 435/189.000; 435/419.000; 435/468.000  
 IPC [7]  
 IPCI C07H0021-04 [ICM,7]; C07H0021-00 [ICM,7,C\*]; C12N0009-02 [ICS,7]; A01H0001-00 [ICS,7]; C12N0015-82 [ICS,7]; C12N0005-04 [ICS,7]  
 IPCI-2 A01H0005-00 [I,A]; A01H0005-10 [I,A]; C12N0015-82 [I,A]; C12N0015-29 [I,A]  
 IPCR A01H0005-00 [I,C]; A01H0005-00 [I,A]; A01H0001-00 [I,C\*]; A01H0001-00 [I,A]; A01H0005-10 [I,C]; A01H0005-10 [I,A]; C07H0021-00 [I,C\*]; C07H0021-00 [I,A]; C07H0021-04 [I,A]; C07K0014-195 [I,C\*]; C07K0014-195 [I,A]; C07K0014-405 [I,C\*]; C07K0014-405 [I,A]; C07K0014-415 [I,C\*]; C07K0014-415 [I,A]; C12N [I,S]; C12N0001-21 [I,C\*]; C12N0001-21 [I,A]; C12N0005-04 [I,C\*]; C12N0005-04 [I,A]; C12N0005-10 [I,C\*]; C12N0005-10 [I,A]; C12N0009-02 [I,C\*]; C12N0009-02 [I,A]; C12N0015-11 [I,C\*]; C12N0015-11 [I,A]; C12N0015-29 [I,C]; C12N0015-29 [I,A]; C12N0015-31 [I,C\*]; C12N0015-31 [I,A]; C12N0015-82 [I,C]; C12N0015-82 [I,A]  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 9 OF 12 USPATFULL on STN  
 AN 77:22304 USPATFULL  
 TI Method for treatment of microorganisms  
 IN Nakabayashi, Yutaka, Fukuoka, Japan  
 PA Dai-Nippon Sugar Manufacturing Co., Ltd., Tokyo, Japan (non-U.S. corporation)  
 PI US 4021303 19770503

AI US 1975-645505 19751230 (5)  
 RLI Continuation-in-part of Ser. No. US 1973-414576, filed on 9 Nov 1973,  
 now abandoned  
 PRAI JP 1972-112026 19721110  
 JP 1972-112027 19721110  
 DT Utility  
 FS Granted  
 LN.CNT 692  
 INCL INCLM: 195/005.000  
 INCLS: 426/656.000; 260/112.000R  
 NCL NCLM: 435/259.000  
 NCLS: 426/656.000; 435/804.000; 435/839.000; 435/843.000; 435/911.000;  
 435/921.000; 435/923.000; 435/924.000; 435/940.000; 435/941.000;  
 435/942.000; 435/946.000; 530/370.000; 530/371.000; 530/410.000;  
 530/412.000; 530/821.000; 530/824.000; 530/825.000  
 IPC [2]  
 IPCI A23J0003-00 [ICM,2]  
 IPCR A23J0001-00 [I,C\*]; A23J0001-18 [I,A]; A23J0003-00 [I,C\*];  
 A23J0003-22 [I,A]; C12N0001-06 [I,C\*]; C12N0001-06 [I,A]  
 EXF 426/60; 426/656; 426/431; 426/478; 195/4; 195/5; 195/28N; 195/105;  
 260/112R  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 10 OF 12 USPATFULL on STN  
 AN 76:32360 USPATFULL  
 TI Method for treatment of microorganisms  
 IN Nakabayashi, Yutaka, Fukuoka, Japan  
 PA Dai-Nippon Sugar Manufacturing Co., Ltd., Tokyo, Japan (non-U.S.  
 corporation)  
 PI US 3962466 19760608  
 AI US 1974-472327 19740522 (5)  
 RLI Division of Ser. No. US 1973-414576, filed on 9 Nov 1973, now Defensive  
 Publication No.  
 PRAI JP 1972-112026 19721110  
 JP 1972-112027 19721110  
 DT Utility  
 FS Granted  
 LN.CNT 585  
 INCL INCLM: 426/060.000  
 INCLS: 426/650.000; 426/655.000; 195/028.000N; 195/104.000; 260/112.000R  
 NCL NCLM: 426/060.000  
 NCLS: 426/650.000; 426/655.000; 435/255.700; 435/259.000; 435/803.000;  
 435/839.000; 435/853.000; 530/371.000; 530/821.000; 530/824.000  
 IPC [2]  
 IPCI A23L0001-28 [ICM,2]  
 IPCR A23J0001-00 [I,C\*]; A23J0001-18 [I,A]; A23J0003-00 [I,C\*];  
 A23J0003-22 [I,A]; C12N0001-06 [I,C\*]; C12N0001-06 [I,A]  
 EXF 426/204; 426/364; 426/60; 426/656; 426/655; 426/650; 195/28N; 195/81;  
 195/121; 195/122; 195/123; 195/104; 195/105; 260/112R  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 11 OF 12 USPAT2 on STN  
 AN 2005:45498 USPAT2  
 TI ADS genes for reducing saturated fatty acid levels in seed oils  
 IN Heilmann, Ingo H., Bay Shore, NY, UNITED STATES  
 Shanklin, John, Shoreham, NY, UNITED STATES  
 PA Brookhaven Science Associates, LLC, Upton, NY, UNITED STATES (U.S.  
 corporation)  
 PI US 7655833 B2 20100202  
 AI US 2004-857765 20040528 (10)  
 PRAI US 2003-474045P 20030529 (60)  
 DT Utility

FS GRANTED  
LN.CNT 4398  
INCL INCLM: 800/281.000  
INCLS: 800/298.000  
NCL NCLM: 800/281.000; 800/287.000  
NCLS: 800/298.000; 435/200.000; 435/415.000; 435/468.000; 536/023.200;  
800/312.000  
IC IPCI C07H0021-04 [ICM,7]; C07H0021-00 [ICM,7,C\*]; C12N0009-24 [ICS,7];  
A01H0001-00 [ICS,7]; C12N0015-87 [ICS,7]; A01H0005-00 [ICS,7];  
C12N0005-04 [ICS,7]  
IPCI-2 C12N0015-82 [I,A]; A01H0005-00 [I,A]  
IPCR C12N0015-82 [I,C]; C12N0015-82 [I,A]; A01H0005-00 [I,C];  
A01H0005-00 [I,A]; C07H0021-00 [I,C\*]; C07H0021-04 [I,A];  
C12N0009-02 [I,C\*]; C12N0009-02 [I,A]  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 12 OF 12 USPAT2 on STN  
AN 2004:180328 USPAT2  
TI Plastid division and related genes and proteins, and methods of use  
IN Osteryoung, Katherine W., Williamston, MI, UNITED STATES  
Vitha, Stanislav, Haslett, MI, UNITED STATES  
Koksharova, Olga A., Moscow, RUSSIAN FEDERATION  
Gao, Hongbo, East Lansing, MI, UNITED STATES  
PA Board of Trustees of Michigan State University, Lansing, MI, UNITED  
STATES (U.S. corporation)  
PI US 7667099 B2 20100223  
AI US 2003-600070 20030620 (10)  
PRAI US 2002-402242P 20020809 (60)  
US 2002-390140P 20020620 (60)  
DT Utility  
FS GRANTED  
LN.CNT 11344  
INCL INCLM: 800/298.000  
INCLS: 536/023.200; 435/320.100; 435/418.000  
NCL NCLM: 800/298.000; 800/282.000  
NCLS: 435/320.100; 435/418.000; 536/023.200; 435/069.100; 435/189.000;  
435/419.000; 435/468.000  
IC IPCI C07H0021-04 [ICM,7]; C07H0021-00 [ICM,7,C\*]; C12N0009-02 [ICS,7];  
A01H0001-00 [ICS,7]; C12N0015-82 [ICS,7]; C12N0005-04 [ICS,7]  
IPCI-2 A01H0005-00 [I,A]; A01H0005-10 [I,A]; C12N0015-82 [I,A];  
C12N0015-29 [I,A]  
IPCR A01H0005-00 [I,C]; A01H0005-00 [I,A]; A01H0001-00 [I,C\*];  
A01H0001-00 [I,A]; A01H0005-10 [I,C]; A01H0005-10 [I,A];  
C07H0021-00 [I,C\*]; C07H0021-00 [I,A]; C07H0021-04 [I,A];  
C07K0014-195 [I,C\*]; C07K0014-195 [I,A]; C07K0014-405 [I,C\*];  
C07K0014-405 [I,A]; C07K0014-415 [I,C\*]; C07K0014-415 [I,A]; C12N  
[I,S]; C12N0001-21 [I,C\*]; C12N0001-21 [I,A]; C12N0005-04 [I,C\*];  
C12N0005-04 [I,A]; C12N0005-10 [I,C\*]; C12N0005-10 [I,A];  
C12N0009-02 [I,C\*]; C12N0009-02 [I,A]; C12N0015-11 [I,C\*];  
C12N0015-11 [I,A]; C12N0015-29 [I,C]; C12N0015-29 [I,A];  
C12N0015-31 [I,C\*]; C12N0015-31 [I,A]; C12N0015-82 [I,C];  
C12N0015-82 [I,A]  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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(FILE 'HOME' ENTERED AT 19:56:14 ON 25 SEP 2010)

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AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS,  
CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB,

DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 19:56:39 ON 25 SEP 2010  
SEA (CYANOBACT? OR BLUE-GREEN) AND CULTUR? AND (MEDIA OR MEDIUM

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1 FILE PROMT  
1170 FILE USPATFULL  
316 FILE USPAT2  
1 FILE WPIDS  
1 FILE WPINDEX  
L1 QUE (CYANOBACT? OR BLUE-GREEN) AND CULTUR? AND (MEDIA OR MEDIUM  
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L3 1487 DUP REM L2 (0 DUPLICATES REMOVED)  
L4 744 S L3 AND (RHAMNOSUM OR ACIDOPHILUS OR LACTIS OR SUBTILIS OR PAL  
L5 12 S L4 AND EDIBLE(P)ALGAE

=> s l5 and (inorganic or organic)  
L6 12 L5 AND (INORGANIC OR ORGANIC)

=> s l6 and inorganic  
L7 5 L6 AND INORGANIC

=> d l7 1-5

L7 ANSWER 1 OF 5 USPATFULL on STN  
AN 2009:288609 USPATFULL  
TI HOPM1 Mediated disease resistance to Pseudomonas syringae in Arabidopsis  
IN He, Sheng Yang, Okemos, MI, UNITED STATES  
Nomura, Kinya, East Lansing, MI, UNITED STATES  
PA Michigan State University, Lansing, MI, UNITED STATES (U.S. corporation)  
PI US 20090258825 A1 20091015  
AI US 2008-938 A1 20080221 (12)  
PRAI US 2007-902576P 20070221 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 8900  
INCL INCLM: 514/012.000  
INCLS: 435/320.100; 530/350.000; 435 4  
NCL NCLM: 514/012.000  
NCLS: 435/004.000; 435/320.100; 530/350.000  
IC IPCI A61K0038-16 [I,A]; C12N0015-63 [I,A]; C07K0014-005 [I,A];  
C12Q0001-00 [I,A]  
IPCR A61K0038-16 [I,C]; A61K0038-16 [I,A]; C07K0014-005 [I,C];  
C07K0014-005 [I,A]; C12N0015-63 [I,C]; C12N0015-63 [I,A];  
C12Q0001-00 [I,C]; C12Q0001-00 [I,A]  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 2 OF 5 USPATFULL on STN  
AN 2009:34078 USPATFULL  
TI AtMIN7 mediated disease resistance to Pseudomonas syringae in  
arabidopsis  
IN He, Sheng Yang, Okemos, MI, UNITED STATES  
Nomura, Kinya, East Lansing, MI, UNITED STATES  
PA Michigan State University, Lansing, MI, UNITED STATES (U.S. corporation)  
PI US 20090031456 A1 20090129  
AI US 2008-959 A1 20080221 (12)  
PRAI US 2007-902576P 20070221 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 8708  
INCL INCLM: 800/301.000



INCLS: 435/320.100; 800/317.000; 800/306.000; 800/320.000  
NCL NCLM: 800/301.000  
NCLS: 435/320.100; 800/306.000; 800/317.000; 800/320.000  
IC IPCI C12N0015-82 [I,A]; A01H0005-00 [I,A]  
IPCR C12N0015-82 [I,C]; C12N0015-82 [I,A]; A01H0005-00 [I,C];  
A01H0005-00 [I,A]

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 3 OF 5 USPATFULL on STN  
AN 2005:43751 USPATFULL  
TI Method for culturing organic blue-green algae  
IN Chiueh, Chuang Chun, Taipei, TAIWAN, PROVINCE OF CHINA  
PA Far East Microalgae Ind. Co., Ltd., Taipei City, TAIWAN, PROVINCE OF CHINA (non-U.S. corporation)  
PI US 20050037480 A1 20050217  
AI US 2004-800623 A1 20040316 (10)  
PRAI TW 2003-92122412 20030814  
DT Utility  
FS APPLICATION  
LN.CNT 290  
INCL INCLM: 435/252.100  
NCL NCLM: 435/252.100  
IPC [7]  
IPCI C12N0001-20 [ICM,7]  
IPCR C12N0001-12 [I,C\*]; C12N0001-12 [I,A]

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 4 OF 5 USPATFULL on STN  
AN 77:22304 USPATFULL  
TI Method for treatment of microorganisms  
IN Nakabayashi, Yutaka, Fukuoka, Japan  
PA Dai-Nippon Sugar Manufacturing Co., Ltd., Tokyo, Japan (non-U.S. corporation)  
PI US 4021303 19770503  
AI US 1975-645505 19751230 (5)  
RLI Continuation-in-part of Ser. No. US 1973-414576, filed on 9 Nov 1973, now abandoned  
PRAI JP 1972-112026 19721110  
JP 1972-112027 19721110  
DT Utility  
FS Granted  
LN.CNT 692  
INCL INCLM: 195/005.000  
INCLS: 426/656.000; 260/112.000R  
NCL NCLM: 435/259.000  
NCLS: 426/656.000; 435/804.000; 435/839.000; 435/843.000; 435/911.000; 435/921.000; 435/923.000; 435/924.000; 435/940.000; 435/941.000; 435/942.000; 435/946.000; 530/370.000; 530/371.000; 530/410.000; 530/412.000; 530/821.000; 530/824.000; 530/825.000  
IPC [2]  
IPCI A23J0003-00 [ICM,2]  
IPCR A23J0001-00 [I,C\*]; A23J0001-18 [I,A]; A23J0003-00 [I,C\*]; A23J0003-22 [I,A]; C12N0001-06 [I,C\*]; C12N0001-06 [I,A]  
EXF 426/60; 426/656; 426/431; 426/478; 195/4; 195/5; 195/28N; 195/105; 260/112R

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 5 OF 5 USPATFULL on STN  
AN 76:32360 USPATFULL  
TI Method for treatment of microorganisms  
IN Nakabayashi, Yutaka, Fukuoka, Japan

PA Dai-Nippon Sugar Manufacturing Co., Ltd., Tokyo, Japan (non-U.S. corporation)

PI US 3962466 19760608

AI US 1974-472327 19740522 (5)

RLI Division of Ser. No. US 1973-414576, filed on 9 Nov 1973, now Defensive Publication No.

PRAI JP 1972-112026 19721110

JP 1972-112027 19721110

DT Utility

FS Granted

LN.CNT 585

INCL INCLM: 426/060.000

INCLS: 426/650.000; 426/655.000; 195/028.000N; 195/104.000; 260/112.000R

NCL NCLM: 426/060.000

NCLS: 426/650.000; 426/655.000; 435/255.700; 435/259.000; 435/803.000; 435/839.000; 435/853.000; 530/371.000; 530/821.000; 530/824.000

IPC [2]

IPCI A23L0001-28 [ICM,2]

IPCR A23J0001-00 [I,C\*]; A23J0001-18 [I,A]; A23J0003-00 [I,C\*]; A23J0003-22 [I,A]; C12N0001-06 [I,C\*]; C12N0001-06 [I,A]

EXF 426/204; 426/364; 426/60; 426/656; 426/655; 426/650; 195/28N; 195/81; 195/121; 195/122; 195/123; 195/104; 195/105; 260/112R

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 17 5 kwic

L7 ANSWER 5 OF 5 USPATFULL on STN

SUMM . . . to be the most promising means for solving the shortage of proteins in the world, and such microorganisms are generally cultured in a medium comprising a carbon source such as saccharides, hydrocarbons, alcohols, carbon dioxide and the like, a nitrogen source such as ammonia,. . . with the requisite minerals and vitamins. The microorganisms which are known to produce proteins efficiently include yeasts, bacteria, green algae, blue-green algae and the like. However, these microorganisms usually have a tough cell membrane and, therefore, it is very difficult to. . . lysis of cells is extremely low and the foodstuffs produced from the cells containing such proteins, for example, a textured protein, an imitation milk or reformed products thereof in which a wheat flour, a corn flour, etc. is incorporated, generally tend. . .

SUMM . . . microorganisms containing fresh proteins, i.e., essentially natural proteins. The microorganisms which can be used in the present invention include broadly yeast, bacteria, algae and molds, but, from the standpoint of the use of foodstuffs, Candida utilis, Saccharomyces cerevisiae, Saccharomyces fragilis and Saccharomyces carlsbergensis are preferred since these microorganisms are known to be useful as foodstuffs. Also, Lactobacillus burgaricus, Bacillus subtilis, Saccharomyces mise, Chlorella or Senedendumus, or the like has been utilized in the foodstuff industry in Japan and can be. . . which can be used in the present invention are photosynthetic microorganisms, for example, Spirulina or Arthrospirulina. These microorganisms can be cultured by various cultivation methods well established in the fermentation field and are now available in large quantities. It is well known that, since the above edible microorganisms are surrounded by a tough cell membrane, mere drying of the cells usually results in poor digestability of the. . . cells usually does not possess the properties of processed proteins when the dried cells are used in foodstuffs as a protein raw material.

SUMM . . . compared with those which are not subjected to the chemical treatment. The following Reference Example was conducted on a fresh

yeast, *Candida utilis*, which is aerobically cultured in a medium containing waste molasses as a carbon source. In this experiment, the living cells are first subjected to various chemical treatments. . . .

SUMM a 10% aqueous slurry (based on the weight of the dried cells) of the yeast was subjected to a chemical treatment as described hereinafter to prepare samples. One of the samples was adjusted to a. . .

SUMM . . . washed twice with cold water each in a volume of 5 times the volume of the proteins, and the resulting protein portion was dissolved in a small amount of aqueous ammonia and sucrose was added to the solution in an amount. . . solution was spread on an aluminum foil as a thin film and dried with hot air (about 40°C) to prepare Protein Samples P-A, P-B, P-C, P-D and P-E, respectively. As a control, a 20% aqueous slurry (based on the dried yeast) of the same yeast was combined with an equal volume of 1N sodium hydroxide followed by stirring for 3 hours at a temperature of. . . were then washed with water, dissolved in aqueous ammonia and dried in the same manner as described above to prepare Protein-Sample P-F. The glutinous property, heat-coagulating property and nucleic acid content in the dry matter were then determined in each of the Protein-Samples and the results obtained are shown in Table 1.

SUMM In the above determinations, the glutinous property was measured by adding water to the Protein-Sample to a 30% solids content, kneading the mixture to absorb water into the Sample uniformly, and observing the glutinous strength. . . .

SUMM The microorganisms which can be employed in the present invention are yeasts such as *Candida utilis* (generally called as *Tolula* yeast), *Saccharomyces cerevisiae*, *Saccharomyces carlsbergensis*, *Saccharomyces fragilis*, *Candida tropicalis*, *Candida lipolitica*, *Rodotricula glutinis* and the like, bacteria such as *Bacillus subtilis*, *Corynebacterium* sp. and the like, blue-green algae such as *Arthorospira*, *Spirulina* and the like, and green-algae such as *Chlorella vulgaris*, *Scenedesmus* sp. and the like.

SUMM . . . bitter taste. The extract thus obtained can be used, optionally after it is treated with activated carbon, for producing a yeast extract which is useful as a seasoning, a nutrient or a growth promoting substance for microorganisms. Alternatively, the alkali treatment. . . .

SUMM The acid treatment can be conducted using inorganic acids such as hydrochloric acid, sulfuric acid, phosphoric acid, carbonic acid and the like or organic acids such as citric acid, lactic acid, acetic acid and the like at a pH of from 0.5 to 4.0. . . .

SUMM The treatment with a hydrophilic solvent can be accomplished by using dipolar or monopolar organic solvents which are freely miscible with water. Suitable examples of the hydrophilic solvent are acetone, methanol, ethanol, propanol, isopropanol and. . . .

SUMM When an alkaline yeast slurry is stirred in a sand grinder, the viscosity tends to increase and stable foams are formed during the rupturing. . . .

SUMM . . . such as corn flour, wheat flour, soybean flour, potato flour and the like or a powder of wheat gluten, soybean protein, sodium alginate, starch and the like. The roll is generally rotated at a rate of 120 to 350 m per. . . .

SUMM . . . to treatment (1) or (2) below depending upon the type of the final product desired. That is, (1) when a protein-rich product is desired, the mixture is centrifuged at an alkaline pH to separate the ruptured cell membrane and the supernatant. . . . precipitate the proteins which are then collected using a suitable means. (2) When it is desired to merely eliminate the yeast odor, the above mixture is adjusted near the isoelectric point of the proteins, usually a pH of 3.5 to 4.5,. . . . example, esters of sucrose

and fatty acids, a sugar alcohol, for example, inositol, xylitol, sorbitol, mannitol and the like, an edible polyphosphate which is allowed to be incorporated into foodstuffs, sodium alginate and the like can be dissolved in the slurry. . . .

SUMM . . . nucleic acids and substances related thereto, vitamins and other growth promoting factors for microorganisms and can be utilized in a culture medium for microorganisms. Further, since the waste liquor is generally free from a bitter taste and also free from a burning smell or a decomposition odor which is inherent in the protein obtained by the conventional alkali extraction method, it can be used as seasonings or nutrients by adjusting the waste liquor. . . . merely concentrating the waste liquor. If it is desirable to remove the nucleic acids or substances related thereto and the yeast odor, the waste liquor can be treated with activated carbon which is then removed to obtain a yeast extract useful as a seasoning. The recovered activated carbon as it is or the washings obtained in washing of the. . . .

DETD The cultured cells of *Saccharomyces cerevisiae* obtained by aerobically culturing the microorganism in a nitrogen-rich medium comprising waste molasses as a carbon source for 17 hours were washed with water and filtered using a filter press to obtain 32 Kg of a yeast cell cake having a water content of 69% by weight. Analysis of the completely dried cells showed 54.6% crude proteins, . . . acids. The above cell cake was then slurried in water to produce an aqueous slurry containing 10% by weight of yeast cells on a dry basis, and the slurry was adjusted to a pH of 12.4 with 5N sodium hydroxide and stirred at a temperature of 18°C for 40 minutes. The cells thus treated were then separated into alkali treated yeast cells and an alkali waste liquor by a skimming type centrifuge, and the separated yeast cells were washed twice with warm water (about 35°C) in a volume equal to that of the slurry to complete the alkali treatment. Analysis of the completely dried cells of the alkali treated yeast showed 55.9% crude proteins and 0.87% crude nucleic acid. The pH of the yeast cells was then adjusted to 4.0 with 5N hydrochloric acid to prevent excess foaming and fed into a 10 liter. . . . ensure complete rupture of the cells (the rupture ratio counted microscopically was found to be 96%), a precipitate comprising ruptured yeast cell membrane and proteins was recovered using a skimming type centrifuge, washed twice with water and adjusted to a pH. . . .

DETD 39 Kg (73% water content) of packed yeast cells of *Candida utilis* was obtained in the same manner as described in Example 1. Analysis of the absolutely dried. . . . warm water at 40°C, and the resulting slurry was stirred at a temperature of 40°C for 2 hours, separated into yeast cells and an alkali waste liquor using a skimming type centrifuge. The yeast cells were washed twice with warm water. Analysis of the completely dried cells obtained above showed 61.2% crude proteins and. . . . complete the rupture of the cell membranes (the percent rupture observed microscopically was found to be 93%). The resulting ruptured yeast cell liquid was concentrated to a 20% solids content using a thin-film evaporator and 1 Kg of sucrose was dissolved. . . . with 1N sodium hydroxide, concentrated again to a 37% solids content and finally spray-dried to obtain 3.2 Kg of a yeast extract having a low sodium chloride content. The yeast extract thus obtained was almost free from a bitter taste and a puckery taste and exhibited a good flavor. Thus,. . . .

DETD To 30 Kg of a living yeast of *Candida utilis* was added 0.3N hydrochloric acid to adjust the pH to 2.0 and the mixture was kept at. . . . a pH value of 4.0 with 0.5N sodium hydroxide, and slurried in water to prepare an aqueous slurry containing 15% yeast cells on a dry basis. The slurry was then subjected to rupture using a sand

grinder in the same manner. . . .

DETD To 10 g (71% water content) of a living *Torula* yeast was added 2.5 ml of 1N sodium hydroxide while thoroughly blending. After allowing the mixture to stand for 5 minutes. . . . thorough stirring to complete the alkali treatment. Separately, 22.5 ml of water was added to 10 g of the same yeast to obtain a control. Each of the alkali treated yeast and the control yeast was then ruptured using a Brawn Cell Homogeniser for 5 minutes using glass beads having a grain size of about 0.5 mm. Analysis of the released ratio of nitrogenous compounds in each instance showed 81% in the alkali treated yeast and 49% in the control.

DETD 100 ml of ethanol was slowly added to 10 g of a living *Torula* yeast while thoroughly communiting the yeast in a mortar and the mixture was maintained at a temperature of 43°C for 20 minutes. The cells were then. . . .

DETD 100 cc of ethanol was added slowly to 10 g (75% water content) of living cells of *Bacillus megatherium* while thoroughly stirring, and the mixture was treated at a temperature of 40°C for 20 minutes. The cells were. . . . cells. Separately, a sample, as a control, was prepared by adding 10 g (75% water content) of living cells of *Bacillus magatherium* to 22.5 ml of water and treated using a Brawn Cell Homogeniser for 10 minutes in the same manner. . . .

DETD A baker's yeast (*Saccharomyces cerevisiae*) was aerobically cultured in a culture medium containing waste molasses and a sufficient amount of a nitrogen source for 18 hours and, after removal of the culture liquid, the cells were washed thoroughly with water to obtain 42 Kg (72% water content) of a yeast cell cake. 10 g of the yeast cell cake thus obtained were then slurried in water to produce a slurry containing 10% cells on a dry basis,. . . . of 6.0 with 1N hydrochloric acid. The slurry thus treated was centrifuged using a skimming type centrifuge to collect the yeast cells and the cells were washed twice with warm water (about 35°C) in an amount equal to that of the previous slurry. 3 Kg of the resulting alkali-treated yeast cells (total amount, 6 Kg; 73% water content) was spray-dried in the same manner as described in Example 1, and. . . . observation of the cells which had been passed through the roll mill four times showed no original cells of the yeast. 2 g of the above treated cells was then dispersed and dissolved in 10 cc of 0.1N sodium hydroxide and. . . .

CLM What is claimed is:

1. A method for producing a yeast extract comprising nucleic acids and related substances which comprises chemically treating microorganisms with an alkali to extract material from said cells while substantially leaving within said cells protein contained within said cells, separating the thus treated microorganism cells from a waste liquor and adjusting said waste liquor to. . . .

CLM What is claimed is:

- . . . . absorb nucleic acids and substances related thereto, and filtering the waste liquor to remove said activated carbon to obtain a yeast extract.

=> s 17 and salt?

L8 3 L7 AND SALT?

=> d 18 1-3

L8 ANSWER 1 OF 3 USPATFULL on STN

AN 2009:288609 USPATFULL

TI HOPM1 Mediated disease resistance to *Pseudomonas syringae* in *Arabidopsis*

IN He, Sheng Yang, Okemos, MI, UNITED STATES  
 Nomura, Kinya, East Lansing, MI, UNITED STATES  
 PA Michigan State University, Lansing, MI, UNITED STATES (U.S. corporation)  
 PI US 20090258825 A1 20091015  
 AI US 2008-938 A1 20080221 (12)  
 PRAI US 2007-902576P 20070221 (60)  
 DT Utility  
 FS APPLICATION  
 LN.CNT 8900  
 INCL INCLM: 514/012.000  
 INCLS: 435/320.100; 530/350.000; 435 4  
 NCL NCLM: 514/012.000  
 NCLS: 435/004.000; 435/320.100; 530/350.000  
 IC IPCI A61K0038-16 [I,A]; C12N0015-63 [I,A]; C07K0014-005 [I,A];  
 C12Q0001-00 [I,A]  
 IPCR A61K0038-16 [I,C]; A61K0038-16 [I,A]; C07K0014-005 [I,C];  
 C07K0014-005 [I,A]; C12N0015-63 [I,C]; C12N0015-63 [I,A];  
 C12Q0001-00 [I,C]; C12Q0001-00 [I,A]  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 2 OF 3 USPATFULL on STN  
 AN 2009:34078 USPATFULL  
 TI AtMIN7 mediated disease resistance to Pseudomonas syringae in  
 arabidopsis  
 IN He, Sheng Yang, Okemos, MI, UNITED STATES  
 Nomura, Kinya, East Lansing, MI, UNITED STATES  
 PA Michigan State University, Lansing, MI, UNITED STATES (U.S. corporation)  
 PI US 20090031456 A1 20090129  
 AI US 2008-959 A1 20080221 (12)  
 PRAI US 2007-902576P 20070221 (60)  
 DT Utility  
 FS APPLICATION  
 LN.CNT 8708  
 INCL INCLM: 800/301.000  
 INCLS: 435/320.100; 800/317.000; 800/306.000; 800/320.000  
 NCL NCLM: 800/301.000  
 NCLS: 435/320.100; 800/306.000; 800/317.000; 800/320.000  
 IC IPCI C12N0015-82 [I,A]; A01H0005-00 [I,A]  
 IPCR C12N0015-82 [I,C]; C12N0015-82 [I,A]; A01H0005-00 [I,C];  
 A01H0005-00 [I,A]  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 3 OF 3 USPATFULL on STN  
 AN 2005:43751 USPATFULL  
 TI Method for culturing organic blue-  
 green algae  
 IN Chiueh, Chuang Chun, Taipei, TAIWAN, PROVINCE OF CHINA  
 PA Far East Microalgae Ind. Co., Ltd., Taipei City, TAIWAN, PROVINCE OF  
 CHINA (non-U.S. corporation)  
 PI US 20050037480 A1 20050217  
 AI US 2004-800623 A1 20040316 (10)  
 PRAI TW 2003-92122412 20030814  
 DT Utility  
 FS APPLICATION  
 LN.CNT 290  
 INCL INCLM: 435/252.100  
 NCL NCLM: 435/252.100  
 IPC [7]  
 IPCI C12N0001-20 [ICM,7]  
 IPCR C12N0001-12 [I,C\*]; C12N0001-12 [I,A]  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d hist

(FILE 'HOME' ENTERED AT 19:56:14 ON 25 SEP 2010)

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 19:56:39 ON 25 SEP 2010  
SEA (CYANOBACT? OR BLUE-GREEN) AND CULTUR? AND (MEDIA OR MEDIUM

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1 FILE PROMT  
1170 FILE USPATFULL  
316 FILE USPAT2  
1 FILE WPIDS  
1 FILE WPINDEX

L1 QUE (CYANOBACT? OR BLUE-GREEN) AND CULTUR? AND (MEDIA OR MEDIUM  
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FILE 'PROMT, USPATFULL, USPAT2' ENTERED AT 20:19:12 ON 25 SEP 2010

L2 1487 S L1  
L3 1487 DUP REM L2 (0 DUPLICATES REMOVED)  
L4 744 S L3 AND (RHAMNOSUM OR ACIDOPHILUS OR LACTIS OR SUBTILIS OR PAL  
L5 12 S L4 AND EDIBLE(P)ALGAE  
L6 12 S L5 AND (INORGANIC OR ORGANIC)  
L7 5 S L6 AND INORGANIC  
L8 3 S L7 AND SALT?

=> logoff

ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

39.31

65.75

STN INTERNATIONAL LOGOFF AT 20:25:47 ON 25 SEP 2010